

Programme Code:	B.Sc.			Programme Title:	B.Sc.Mathematics	
Course Code:	-			Title	Batch:	2018 – 2021
				Value Added Course: 3D Printing	Semester:	VI
Lecture Hrs./Week or Practical Hrs./Week	-	Tutorial Hrs./Sem.	-		Credits:	-

S. No.	Content	Modules
1.	Introduction to 3D Printing: 3D Printing overview -3D printing technology - Intro to 3D modeling	Module 1
2.	Mesh: What is a Mesh - Moving from 2D to 3D - Advanced CAD commands-CAM Skills-Mesh repair	Module 2
3.	Gear Systems: Introduction - Gear System-Designing Gears in CAD-Kinematic Models	Module 3
4.	Dynamics Surfaces and Chains: Dynamics Surfaces – Nesting – Multiplier - Material Behavior - Resolution-Tolerance and support material - Dynamic Surfaces and Chains	Module 4
5.	The Future of Fabrication: Introduction – Parametric Design – Prototype Printing – Prototype Testing.	Module 5

V. Githin

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